



{In Archive} RE: Synthetic Turf Council Artificial turf presentation

Rick Doyle to: Jacqueline McQueen

06/02/2008 06:59 AM

Cathy Fehrenbacher, Kent Thomas, Linda Sheldon, marty.sergi,
Cc: Michael Firestone, Ross Highsmith, "Stanley H. Greene", "Tuncer
B. Edil", Walter Cybulski

From: "Rick Doyle" <rick@syntheticturfcouncil.org>

To: Jacqueline McQueen/DC/USEPA/US@EPA,

Cc: Cathy Fehrenbacher/DC/USEPA/US@EPA, Kent Thomas/RTP/USEPA/US@EPA, Linda
Sheldon/RTP/USEPA/US@EPA, <marty.sergi@permalife.com>, Michael
Firestone/DC/USEPA/US@EPA, Ross Highsmith/RTP/USEPA/US@EPA, "Stanley H. Greene"

History: This message has been replied to and forwarded.

Archive: This message is being viewed in an archive.

1 attachment



STC Presentation to EPA Workgroup 6-2-08.ppt

Jackie - Here it is. We might as well all work from
a hard copy. Talk to
you at 10. Cheers, Rick

Rick Doyle, President
Synthetic Turf Council
www.syntheticturfcouncil.org

400 Galleria Parkway | Suite 1500
Atlanta | GA | 30339
p 678.385.6720 | f 678.385.6501

-----Original Message-----

From: McQueen.Jacqueline@epamail.epa.gov
[mailto:McQueen.Jacqueline@epamail.epa.gov]
Sent: Monday, June 02, 2008 6:52 AM
To: Rick Doyle
Cc: Fehrenbacher.Cathy@epamail.epa.gov; Joseph E
Motz;
thomas.kent@epamail.epa.gov;
Sheldon.Linda@epamail.epa.gov;
marty.sergi@permalife.com;
Firestone.Michael@epamail.epa.gov;
Highsmith.Ross@epamail.epa.gov; Stanley H. Greene;
'Tuncer B. Edil';
Cybulski.Walter@epamail.epa.gov
Subject: Re: Synthetic Turf Council Artificial turf
presentation

Rick

Thanks for the attachments and your help in
organizing this meeting.

One question: Some of us in DC will meet in a

conference room and won't
have access to a computer. Is there a way for you to
send the
PowerPoint slides by 9:30, so we can make copies and
bring them with us
to the common room?

Thanks very much.

Jackie

Jacqueline McQueen
U.S. Environmental Protection Agency (8104R)
Office of Research and Development
Office of Science Policy
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460
(202) 564-6639

"Rick Doyle"
<rick@synthetict
urfcouncil.org>

To

Jacqueline

05/30/2008 03:07

McQueen/DC/USEPA/US@EPA
PM

cc

Ross

Highsmith/RTP/USEPA/US@EPA,

Linda

Sheldon/RTP/USEPA/US@EPA,

Kent

Thomas/RTP/USEPA/US@EPA,

Michael

Firestone/DC/USEPA/US@EPA, Walter

Cybulski/DC/USEPA/US@EPA, Cathy

Fehrenbacher/DC/USEPA/US@EPA,

"Tuncer B.

Edil'"

<tbedil@wisc.edu>, "Stanley H.

Greene"

<sgreene@sprinturf.com>,

<marty.sergi@permalife.com>,

"Joseph E Motz"

<jmotz@themotzgroup.com>

Subject

Synthetic Turf

Council Artificial

turf

presentation

Dear Jackie and the EPA Workgroup on Crumb Rubber -
The STC team is
looking forward to meeting with you by conference
call on Monday, June 2
at 10 a.m. Eastern to present information and expert
knowledge relevant
to your topic, "Assessing Human Exposures to Tire
Crumb Contaminants
Used In Playgrounds and Artificial Turf Fields." To
access the
conference call we will [REDACTED]
enter the LRA code 202 [REDACTED]
[REDACTED]

The STC Team includes, in addition to me:
· Tuncer Edil, Ph.D., Professor and
Research Director,
Department of Civil and Environmental
Engineering, University of
Wisconsin-Madison (Bio attached)
· Stanley Greene, CEO, Sprinturf,
builder of synthetic
turf sports field
· Marty Sergi, CEO, Permalife Products,
manufacturer of
crumb rubber

I have created a PowerPoint presentation that you
will be able to view
from your PC, by logging onto
<https://www2.getmeeting.com/join/448780258> just
prior to the meeting
and selecting Join a Meeting (I will send you an
email invitation on
Monday). During our presentation, Dr. Edil will
reference Sections 6,
21, and 40 of a compendium of relevant research that
has been published
by one of our member companies, FieldTurf Tarkett.
The volume is
available to you on the following website:
www.fieldturf.com/pdfs/sbr_TheStudies.pdf. In
addition, we suggest you
review at some point the excellent studies/technical
documents found in
Sections 5, 14, 41, and in the attachments to this
email.

Please let me know if you have any questions. We

look forward to an
interactive and productive meeting. Best regards.
Cheers, Rick

Rick Doyle, President
Synthetic Turf Council
www.syntheticurfCouncil.org

400 Galleria Parkway | Suite 1500
Atlanta | GA | 30339
p 678.385.6720 | f 678.385.6501

-----Original Message-----

From: McQueen.Jacqueline@epamail.epa.gov
[mailto:McQueen.Jacqueline@epamail.epa.gov]
Sent: Friday, May 30, 2008 8:55 AM
To: Rick Doyle
Cc: McQueen.Jacqueline@epamail.epa.gov;
Highsmith.Ross@epamail.epa.gov;
Sheldon.Linda@epamail.epa.gov;
thomas.kent@epamail.epa.gov;
Firestone.Michael@epamail.epa.gov;
Cybulski.Walter@epamail.epa.gov;
Fehrenbacher.Cathy@epamail.epa.gov
Subject: Artificial turf presentation: Sending
e:mails to Rick Doyle for
Monday meeting

Rick

I am sending this message so you have the e:mails for
the Monday meeting
attendees. Just respond to this if you want to send
a link so we can
access materials for Monday.

Thanks,

Jackie

Jacqueline McQueen
U.S. Environmental Protection Agency (8104R)
Office of Research and Development
Office of Science Policy
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460
(202) 564-6639

[attachment "Broderick-Air Sampling for PAH's
Comsewogue HS 10-07 .pdf"
deleted by Jacqueline McQueen/DC/USEPA/US]
[attachment "Broderick-Air
Sampling for PAH's Schreiber HS 10-07 .pdf" deleted
by Jacqueline
McQueen/DC/USEPA/US] [attachment "Tuncer Edil-Univ.
of
Wisc.-Madison.pdf" deleted by Jacqueline
McQueen/DC/USEPA/US]



EPA Workgroup Presentation & Conference Call

"Synthetic Turf and Crumb Rubber Infill – An Overview of the Product and the Science"

June 2, 2008

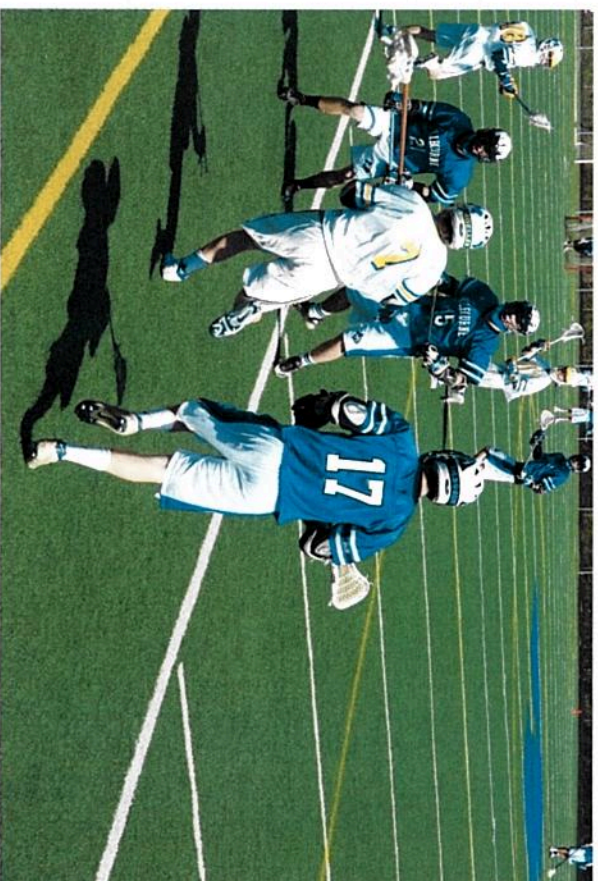
Rick Doyle, President, Synthetic Turf Council

Stanley H. Greene, CEO, Sprinturf, builder of sports fields

Marty Sergi, CEO, Permalife Products, crumb rubber manufacturer

Tuncer Edil, Ph.D., U. of Wisconsin-Madison, Professor & Research Director

Synthetic Turf – An Overview

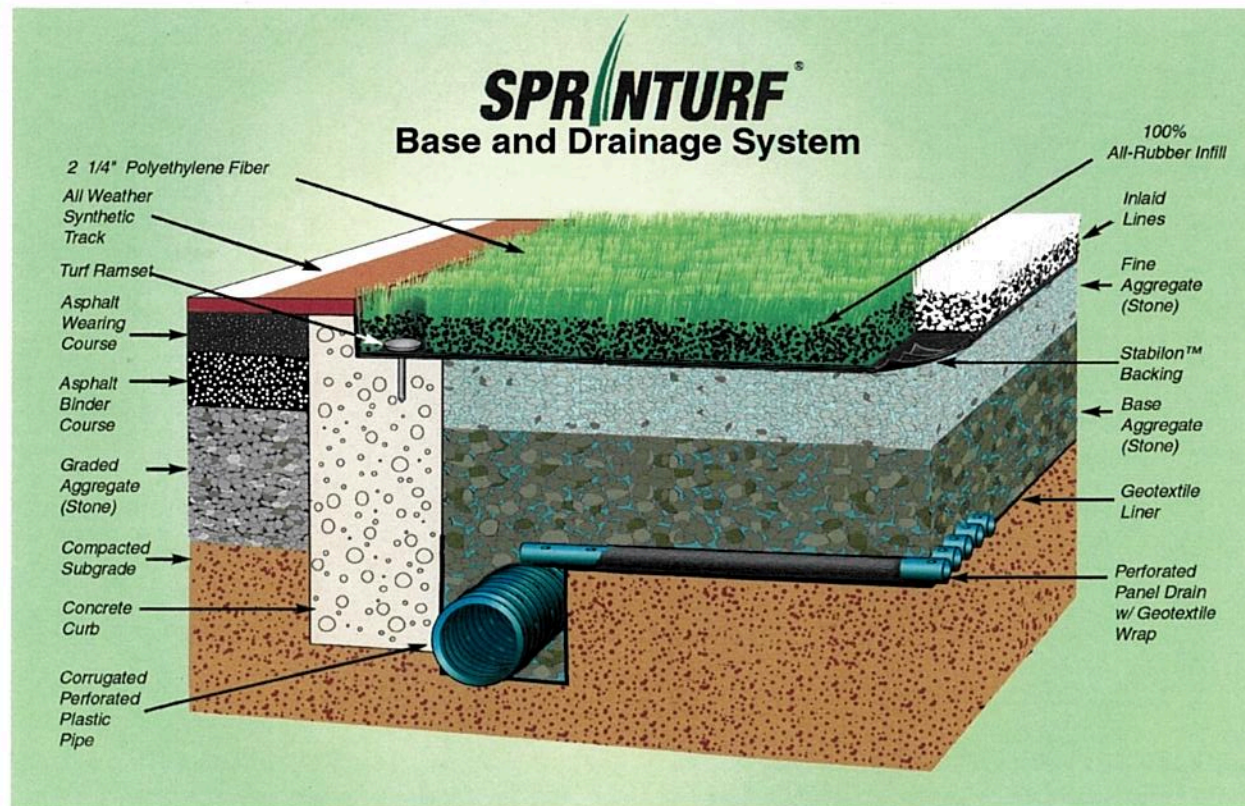




Synthetic Turf – An Overview

- ☐ Evolution of synthetic turf – 1966 to present
 - ☐ Synthetic turf sports field installations-2008
 - ☐ Benefits of crumb rubber infill
 - Resiliency
 - Durability
 - Cost
 - ☐ Synthetic turf is a system
-

The Synthetic Turf System



Recycled Rubber – An Overview





Recycled Rubber – An Overview

- ☐ The market – uses of recycled rubber
 - ☐ Rubber in the environment
 - ☐ Types of rubber
 - ☐ Types of tires used in crumb rubber
 - ☐ Manufacturing crumb rubber
 - Cryogenic, ambient grinding, crambient
 - Removal of fiber and steel
 - Sports fields v. playgrounds
-

Production Technology

Used vehicle tires



- Approximately 300 million in yearly supply
- Sourced from major consumer tire replacement companies such as Walmart, Sears, BJ's, Costco, etc.
- Tipping fees collected by Company at average of 2 cents per pound becomes an additional revenue source.

Production Processes

Company employs three methods of production:

Ambient: Used tire casings are shredded and granulated.

Cryogenic: Tires are shredded, frozen and then shattered. Metal is magnetically removed from rubber, creating clean rubber granules in varying sizes and shapes.

Crambient: Cryogenically produced material, which is reground into smaller sizes.

Products

PermaLife Mulch®



PermaLife Construction Material



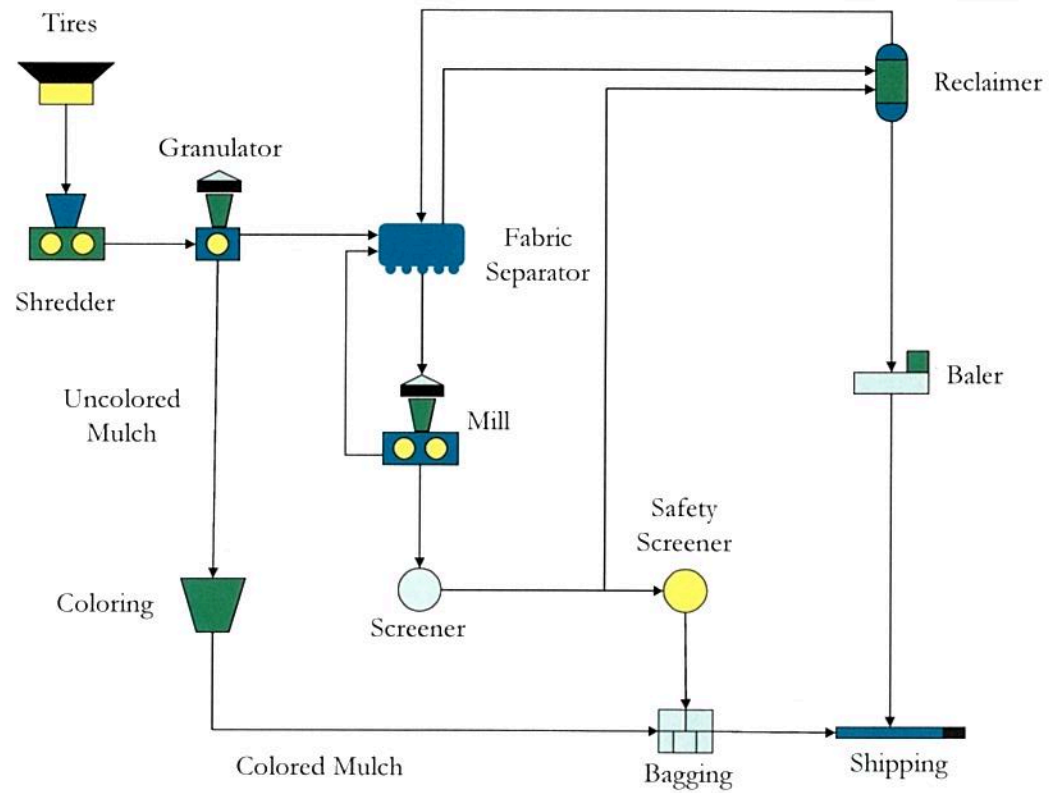
Pour & Play™



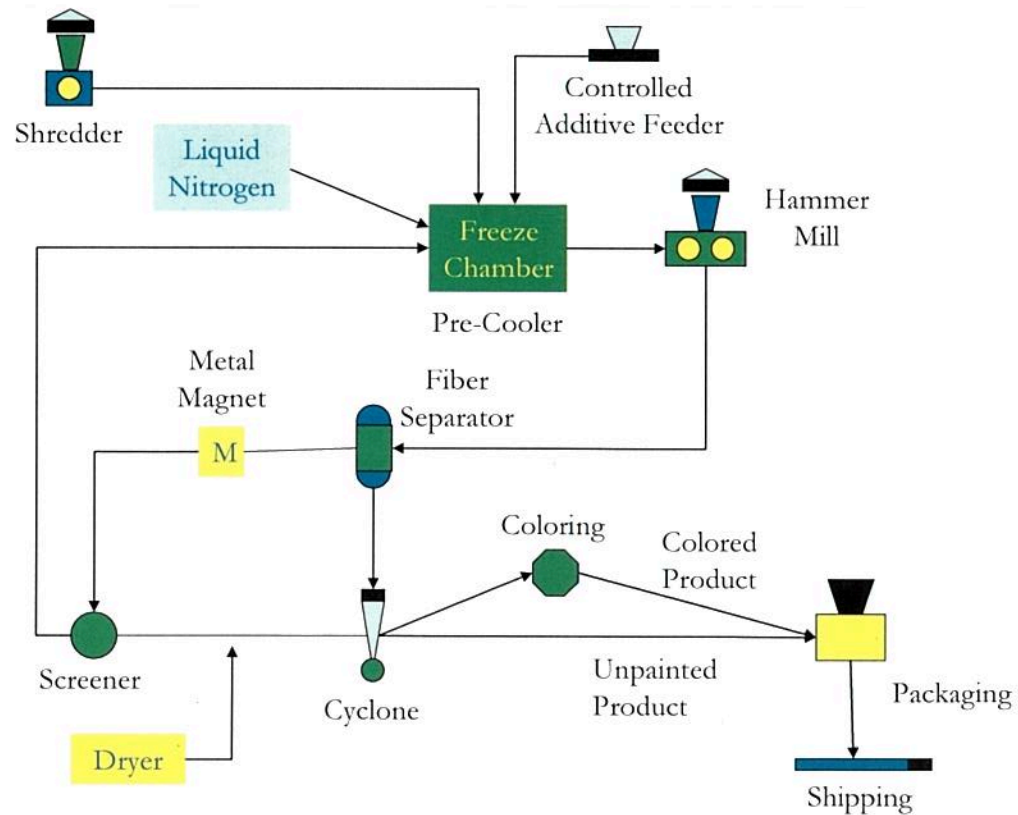
PermaLife SportsFill



Ambient Production Process



Cryogenic Production Process



The Science





Human Health Exposures from Crumb Rubber

- ☐ Ingestion, inhalation, contact, H₂O quality
 - ☐ Contaminants – Availability, properties, pathways of exposure, concentrations (range and levels over time)
 - ☐ Focused relevant research
 - Dutch National Institute for Public Health & Environment
2006 (Section 6, Artificial Turf Facts: The Studies)
 - Norwegian Institute of Public Health & Radium Hospital
2006 (Section 21, Artificial Turf Facts: The Studies)
 - D. Michael Johns, Ph.D., Windward Environmental
2007 (Section 40, Artificial Turf Facts: The Studies)
-



Studies or Analysis

- Soon to be published
 - NYC Dept. of Health & Mental Hygiene
 - ChemRisk for Rubber Manufacturers Association
 - In hand
 - *Artificial Turf Facts: The Studies*
www.fieldturf.com/pdfs/sbr_TheStudies.pdf
 - Synthetic Turf Council Website
www.syntheticturfCouncil.org/newsroom/research
-



Additional Recommended Research

- ☐ Journal of the Air and Waste Management Association, Section 5
 - ☐ Epona Associates, Section 14
 - ☐ OEHHA of California EPA, Section 41
 - ☐ J. C. Broderick & Assoc, separate attachment
 - ☐ J. C. Broderick & Assoc, separate attachment
 - ☐ D. A. Birkholz, separate attachment
 - ☐ Dr. Bryan Willoughby, separate attachment
-



Thank you

Rick Doyle, President

Synthetic Turf Council

400 Galleria Parkway, Suite 1500

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ph: 678.385.6720

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